# REMARKS / DISCUSSION OF ISSUES

The present amendment is submitted in response to the Non-Final Office Action mailed October 12, 2011. In view of the amendments above and the remarks to follow, reconsideration and allowance of this application are respectfully requested.

# Status of the Claims

Upon entry of the present amendment, claims 1-17 and 19-23 will remain pending in this application. Claim 1 has been amended. The claims are not believed to be narrowed in scope and no new matter is added.

# Interview Summary

Applicants appreciate the courtesy granted to Applicant's attorney, Michael A. Scaturro (Reg. No. 51,356), during a telephonic interview conducted on Tuesday, October 11, 2011. During the telephonic interview, proposed amendments to Claim 1 were discussed. The Examiner suggested that two proposed amendments in particular appear to recite novel subject matter, however, a further search would be required.

### Claim Rejections under 35 USC 102

In the Office Action, Claims 1-3 and 15 stand rejected under 35 U.S.C.
§102 (b) as being anticipated by U.S. Patent Application No.
2003/0047736 ("Forrest").

Independent Claim 1 has been amended herein to recite limitations and/or features which are not disclosed by Forrest. Therefore, the cited portions of Forrest do not anticipate claim 1, because the cited portions of Forrest do not teach every element of claim 1. For example, the cited portions of Forrest do not teach or suggest at least the amended portions of claim 1:

- 1. (Currently Amended) An active matrix display device comprising **a** plurality of printing dams and an array of display pixels, each pixel comprising:
- a current-driven light emitting display element comprising an area of light emitting material sandwiched between electrodes;
  - a light-dependent device for detecting the brightness of the display element,
- wherein the light-dependent device is located laterally outside of the area of the light emitting material defined by the vertical planar edges of the light emitting layer of the light emitting material, and separated from the light emitting material by at least one insulating layer,

wherein the vertical planar edges of the light emitting material are defined in a direction between a top and a bottom electrode of the light-dependent device

wherein the light dependent device is located in the same horizontal plane as the light emitting material of the light emitting display element <u>and is configured to</u> <u>enclose the light emitting material on at least three sides</u>, and

wherein the light dependent device is directly illuminated from light emitted from a side face of the light emitting display element and travels in a horizontal plane from said light emitting display to said light dependent device,

wherein the light-dependent device is substantially the same length as the dimension of an aperture of the light emitting material, and

wherein the light-dependent device is formed beneath one of said plurality of printing dams,

Applicant's specification discloses at page 13, lines 16-17, that the diode should be made as long as possible, preferably the same length as a dimension of the aperture, to gather as much light as possible. Accordingly, Applicants have amended claim 1 to recite in part, wherein the light-dependent device is substantially the same length as the dimension of an aperture of the light emitting material. It is respectfully submitted that Forrest does not disclose, teach or suggest this claim limitation. Fig. 2 of Forrest shows the height of the OLED to be substantially the same height as the photo-detector, however, there is no teaching that the OLED is substantially the same length as the photo-detector, as claimed.

Applicant's specification further discloses at page 16, lines 6-11, that the length of the exposed sidewall of the diode stack can be increased further as shown in Fig. 15. In this case, most of the circumference of the pixel active area is used to illuminate a photodiode, excluding one edge (the left edge in Figure 15). At this edge, the photodiode of the neighboring pixel is positioned. Accordingly, Applicants have amended claim 1 to recite in

part, wherein the light dependent device is located in the same horizontal plane as the light emitting material of the light emitting display element and is configured to enclose the light emitting material on at least three sides, and wherein the light dependent device is directly illuminated from light emitted from a side face of the light emitting display element and travels in a horizontal plane from said light emitting display to said light dependent device. It is respectfully submitted that Forrest does not disclose, teach or suggest this claim limitation. Fig. 2 of Forrest shows the OLED to be in the same horizontal plane as the photo-detector, however, there is no teaching that the photo-diode encloses the OLED on at least three sides, as claimed.

Applicant's specification further discloses at page 5, lines 21-24 that the device may further comprise a plurality of printing dams, and the light emitting material then comprises a printable material. In this case, the reflecting layer can be formed at the base of the printing dams. The light sensitive devices are then formed beneath the printing dams. Accordingly, Applicants have amended claim 1 to recite in part, An active matrix display device comprising a plurality of printing dams and an array of display pixels, each pixel comprising: ... wherein the light-dependent device is formed beneath one of said plurality of printing dams. It is respectfully submitted that Forrest does not disclose, teach or suggest this claim limitation. There is no teaching or suggestion of utilizing printing dams in Forrest.

Based on the above, withdrawal of the rejection under 35 U.S.C. §102(b) with respect to Claim 1 and allowance thereof is respectfully requested. Because claims 2-3 and 15 depend on, and, therefore, contain all of the limitations of claim 1, it is respectfully submitted that these claims are also allowable.

# Rejection under 35 USC 103

II. The Office has rejected claim 4 under 35 U.S.C. §103(a) as being unpatentable over Forrest in view of U.S. Patent No. 5,751,261 ("Zavaracky"). Applicants respectfully traverse the rejection.

As explained above, the cited portions of Forrest do not disclose or suggest each and every element of claim 1 from which claim 4 depends. Zavaracky does not disclose each of the elements of claim 1 that are not disclosed by Forrest. For example, the cited portions of Zavaracky fail to disclose or suggest at least,

wherein the light dependent device is located in the same horizontal plane as the light emitting material of the light emitting display element and is configured to enclose the light emitting material on at least three sides, and wherein the light dependent device is directly illuminated from light emitted from a side face of the light emitting display element and travels in a horizontal plane from said light emitting display to said light dependent device,

wherein the light-dependent device is substantially the same length as the dimension of an aperture of the light emitting material, and

wherein the light-dependent device is formed beneath one of said plurality of printing dams,

Zavaracky is merely cited for teaching a display comprising a photodiode wherein the top contact terminal extends over the top of the stack and down one side of the stack and acts as a light shield to pixels on the one side of the photodiode. Thus, the cited portions of Forrest and Zavaracky, individually or in combination, do not disclose or suggest at least one element of claim 1.

Hence claim 1 is allowable. Claim 4 depends from independent Claim 1 and therefore contains the limitations of Claim 1 and is believed to be in condition for allowance for at least the same reasons given for Claim 1 above. Accordingly, withdrawal of the rejection under 35 U.S.C. §103(a) and allowance of Claim 4 is respectfully requested.

III. The Office has rejected claims 5-8, 16-17 and 21-23 under U.S.C.§103(a) as being unpatentable over Forrest in view of Yamazaki (US 2002 / 0180672). Applicants respectfully traverse the rejections.

As explained above, the cited portions of Forrest do not disclose or suggest each and every element of claim 1 from which claims 5-8, 16-17 and 21-23 depend. Yamazaki does

not disclose each of the elements of claim 1 that are not disclosed by Forrest. For example, the cited portions of Yamazaki fail to disclose or suggest,

wherein the light dependent device is located in the same horizontal plane as the light emitting material of the light emitting display element and is configured to enclose the light emitting material on at least three sides, and wherein the light dependent device is directly illuminated from light emitted from a side face of the light emitting display element and travels in a horizontal plane from said light emitting display to said light dependent device,

wherein the light-dependent device is substantially the same length as the dimension of an aperture of the light emitting material, and

wherein the light-dependent device is formed beneath one of said plurality of printing dams,

Thus, the cited portions of Forrest and Yamazaki, individually or in combination, do not disclose or suggest at least one element of claim 1. Hence claim 1 is allowable. Claims 5-8, 16-17 and 21-23 depend from independent Claim 1 and therefore contain the limitations of Claim 1 and are believed to be in condition for allowance for at least the same reasons given for Claim 1 above. Accordingly, withdrawal of the rejection under 35 U.S.C. §103(a) and allowance of Claims 5-8, 16-17 and 21-23 is respectfully requested.

IV. The Office has rejected claims 9-14 and 19-20 under 35 U.S.C. §103(a) as being unpatentable over Forrest in view of Yamazaki and further in view of U.S. Patent Application No. 2001/0026125 ("Yamazki '125). Applicants respectfully traverse the rejections.

As explained above, the cited portions of Forrest and Yamazaki do not disclose or suggest each and every element of claim 1 from which claims 9-14 and 19-20 depend. Yamazaki '125 does not disclose each of the elements of claim 1 that are not disclosed by Forrest and Yamazaki. For example, the cited portions of Yamazaki '125 fail to disclose or suggest,

wherein the light dependent device is located in the same horizontal plane as the light emitting material of the light emitting display element and is configured to enclose the light emitting material on at least three sides, and wherein the light dependent device is directly illuminated from light emitted from a side face of the light emitting display element and travels in a horizontal plane from said light emitting display to said light dependent device,

wherein the light-dependent device is substantially the same length as the dimension of an aperture of the light emitting material, and

wherein the light-dependent device is formed beneath one of said plurality of printing dams,

Thus, the cited portions of Forrest, Yamazaki and Yamazaki '125, individually or in combination, do not disclose or suggest at least one element of claim 1. Hence claim 1 is allowable. Claims 9-14 and 19-20 depend from independent Claim 1 and therefore contains the limitations of Claim 1 and is believed to be in condition for allowance for at least the same reasons given for Claim 1 above. Accordingly, withdrawal of the rejection under 35 U.S.C. §103(a) and allowance of Claims 9-14 and 19-20 is respectfully requested.

#### Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that all claims presently pending in the application, namely, Claims 1-17 and 19-23 are believed to be in condition for allowance and patentably distinguishable over the art of record.

If the Examiner should have any questions concerning this communication or feels that an interview would be helpful, the Examiner is requested to call Mike Scaturro, Esq., Intellectual Property Counsel, Philips Electronics North America, at 516-414-2007.

Respectfully submitted,

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